# تحليل محتوى كتاب الرياضيات للصف الرابع الأساسي في الأردن في ضوء النتاجات التعلمية الخاصة بمنهاج الرياضيات

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المشرف الدكتور أحمد محمد المقدادي

قدمت هذه الرسالة استكمالاً لمتطلبات الحصول على درجة الماجستير في المناهج وأساليب تدريس الرياضيات

كلية الدراسات العليا الجامعة الأردنية

تعتمد كلية الدراسات العليا هذه النسخة من الرسالـــة التوقيع....مركبالتاريخ.٥٠٠٥٠٠٠

أيار ٢٠٠٩

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التوقييع

أعضاء لجنة المناقشة

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## Analyzing of Mathematics Textbook for Fourth Grade in Jordan In Views of the Intended Learning Outcomes curriculum in Mathematics

## Prepared by Murad Mo'd Abdalla Abu – Sarar

## Supervisor Dr.Ahmad Mo'd Al-Meqdadi

## **ABSTRACT**

The purpose of this study is to investigate the degree of consistency between Math content for the 4<sup>th</sup> Grade primary stage in Jordan and the teaching products related to Math curriculum. Specifically, the study attempts to answer the following research questions:-

- 1. To what degree is preparations and processes pivot achieved in Math content for the 4<sup>th</sup> Grade?
- 2. To what degree is algebra (modes) pivot achieved in Math content for the 4<sup>th</sup> Grade?
- 3. To what degree is measurement pivot achieved in Math content for the 4<sup>th</sup> Grade?
- 4. To what degree is geometry pivot achieved in Math content for the 4<sup>th</sup> Grade?
- 5. To what degree is statistics and probability pivot achieved in Math content for the 4<sup>th</sup> Grade?

These research questions were answered in light of the Analysis Results.

The study community consisted of the math textbooks assigned for the 4<sup>th</sup> grade. Schools have started teaching this curriculum since the scholastic year 2005/2006. The study sample was the same as the study group.

In order to achieve the purpose of this study, an analysis pattern was developed depending on paragraph analysis. There were two kinds of paragraphs:- explanation and questions. After that, search was carried out for productivity availability in each paragraph. The number of frequencies in each paragraph was registered and the percentage for each paragraph was calculated. Results were tabulated in appropriate frequency tables.

The analysis pattern's validity was verified through showing them to a number of judges. In order to determine the reliability of the analysis, consistency co – efficient was calculated between Researcher analysis and co-analyst analysis. The consistency percentage calculated in this way was ( .88) .The researcher himself repeated the analysis a month later and came to the same conclusion(.88).

Results show that the average percentage for achieving preparations and processes pivot was 31% which is relatively small. The average percentage for achieving Algebra(modes) pivot was 43% which is medium. The average percentage for measurement pivot was 53% which is medium. The average percentage for geometry pivot was 42% which is medium. The average percentage for statistics and probability pivot was 50% which is medium.

Through discussing the degree to which all of the five pivots in the content of Math book for the 4<sup>th</sup> grade were achieved, it was found that the average percentage for them all was (44%) which is medium. This percentage shows the degree of consistency between the Math content for the 4<sup>th</sup> grade in Jordan, and teaching products related to Math curriculum.

This brings us to the conclusion that consistency between the Math content for the 4<sup>th</sup> grade in Jordan, and teaching products related to Math curriculum is (44%).

In light of these results, this study recommends conducting further research and studies concerning the degree of consistency between the Math content for all stages, and general teaching products related to Math curriculum. This study also recommends not to concentrate on certain products on account of other products not represented in an acceptable percentage.